378 East Coast Road, Auckland 0630 (020) 4166 0176 diaoyiwei@gmail.com https://nz.linkedin.com/in/yiwei-diao

NZ Information Technology Graduate

Seeking a role as a Junior Full Stack Developer

An astute, accomplished and intelligent professional who has achieved at an advanced level in Microbiology, now pursuing a new career pathway as a Software Developer. Possesses fundamental skills and foundational knowledge in software development, web technologies and databases. Able to leverage advanced level training, skills and experience in the field of science and translate these capabilities into the software development field. Offers a proven ability to grasp complex concepts and to methodically and logically resolve problems.

Software Projects

Research data analysis and display website (fungi-app.azurewebsites.net)

- Automated data analysis of raw experimental data from luminescence plate reader using Python
- Produced web app to display microbiology research data (Dash, Plotly)
- Reduced the time for the research group to process and analyze the data

Blogging website (aby-app.azurewebsites.net)

- Full stack development project.
- A blogging website with full features. Built from scratch
- Implemented authorisation and authentication
- Implemented MVC and DAO design patterns
- Built images by Docker and deployed the container on Azure
- Technologies including HTML/CSS/JavaScript, Node.js, Express, SQLite

Blog admin login app (https://github.com/Tuicaodan/blog-admin-swing-interface)

- A basic administrative user interface (GUI), built using Java Swing
- App can read/delete users' info from server database
- The app is communicated with the server database by REST API
- Implemented MVC, Adapter and Observer design patterns

iTunes music covers retrieval app (itunes-song-cover-app.azurewebsites.net; access code: DQ)

- A web app to retrieve song covers from iTunes
- Learned CSS framework (Tailwind) and NoSQL (MongoDB) reading, writing and updating through Node.js
- Features include using iTunes search API to update song information and album covers

Qualifications

Postgraduate Certificate in Information Technology – GPA 9/9 – University of Auckland | 2021

Master of Science (Microbiology) – GPA 8.48/9 – University of Oklahoma, USA | 2014

Bachelor of Engineering (Light Industry Biotechnology) – Sichuan University, China | 2011

Technical Skills and Certificates

Object-Oriented Programming: Java, C# Front-End Development: HTML, CSS, JavaScript

Back-End Development: Node.js, Express, SQL, REST API, NoSQL Tools: Git, Docker

Knowledge: Unit testing, Design Patterns, Responsive Web Design, Agile

Data Analysis: Python

Certificates: Azure Fundamentals Certification

Professional Experience

University of Auckland (www.auckland.ac.nz)

Research Technician | Feb 2018 - Present

- · Academic literature research
- Conduct and assist with a wide range of experiments using fungi and pathogenic bacteria at PC2
- Investigate the effects of small chemicals (epigenetic compounds) on fungi growth
- Carry out liquid chromatography-mass spectrometry (LC-MS) analysis for active fungi culture
- Optimise laboratory operations, aid in the development or modification of experimental protocols
- Develop a pipeline for data analysis and data visualisation

Pace Analytical Energy Services LLC, Pittsburgh, Pennsylvania, USA (www.pacelabs.com)

Molecular Scientist | Apr 2015 – Nov 2017

- Carried out and managed laboratory testing plans and procedures, and maintained accurate logbooks of all procedures
- Developed new analytical procedures and authored Standard Operating Procedures for new systems
- Operated, maintained, calibrated and debugged laboratory equipment and software systems
- Independent responsible for lab equipment and supply purchasing up to 20k
- · Ensured the laboratory was effectively sanitised and correct level of stock maintained

University of Oklahoma, USA (www.ou.edu)

Research Assistant | Aug 2011 - Oct 2014

- Participated in the full lifecycle of data collection, experimental design, analysis and reporting
- Prepared and wrote research papers
- Provided training to new laboratory staff

Personal Details

Languages: English (fluent) | Mandarin (native)

Certificates: CPR | AED (First Aid)

Awards: Third-Class School Comprehensive Scholarship

Community: Volunteer - "Challenge Cup" (for National students) | Wenchuan Earthquake

Referees

Professional and character referees available on request